IAPO Rec'd PCT/PTO 02 DEC 2005

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of) ·
Erek Odén, et al.) Group:
Serial No.:)
Filed: December 2, 2005) Examiner:
Title: METHOD AND APPARATUS FOR)
MEASURING A DEPTH OF HOLES IN)
COMPOSITE-MATERIAL WORKPIECES)
BEING MACHINED BY AN ORBITING)
CUTTING TOOL)
<u>INFORMATION I</u>	DISCLOSURE STATEMENT

MS Amendment Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

Applicant wishes to bring to the attention of the Examiner the documents identified on the attached form PTO-1449. Applicant respectfully requests that these documents be made of record in the present application.

A copy of each non-US Patent document cited in the attached PTO-1449 form is enclosed.

Patent Document No. WO 01/15870 A2 and WO 03/008136 A1 are each discussed in the specification of the present application.

A concise statement of any non-English document having an English abstract is contained in such abstract, which is incorporated herein by reference.

German Patent DE 43 40 249 discloses an apparatus for controlling the boring of blind holes in multilayer circuit boards has a machine table (4) supporting the circuit board (LP) which has a number of conducting layers (So to Sw). A potential (Pu) is applied to the nth layer (Sw) either directly or by inductive/capacitive means so that as boring proceeds a reference signal is obtained immediately the boring tool (1) touches the layer. A signal evaluation unit (7) and height gauge (6) responding to the potential changes collectively enable accurate control of the boring machine feed (2,5) and resultant penetration depth.

German Patent DE 32 06 354 discloses the device for modifying or repairing non-visible conductor-track patterns on multilayer printed-circuit boards, conductor tracks being cut by drilling or milling, ensures that only the desired conductor track is cut, in that an indicator is connected to the tool, which indicator is also electrically connected to the conductor track to be cut or to the conductor track located underneath the conductor track to be cut and, when the tool touches the relevant conductor track, generates a signal which triggers either an optical or an acoustic indication or stops the drive or the feed.

German Patent DE 100 56 184 discloses the invention relates to a method for defined mechanical drilling of electrical printed circuit boards or printed circuit board stacks. According to this method, an ERI0018.US

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electrical signal for determining the final level of the drilling depth is obtained from the contact of the bit with a conductive layer (2). The method is characterized in that the conductive layer (2) concerned is part of a drilling support. In this way, the inventive method can be used for drilling through the printed circuit boards or printed circuit board stacks.

In the event Applicants have overlooked the need for a payment of fee, or additional payment of fee, or have overpaid a fee, Applicants hereby conditionally petition therefor and authorize that any charges or credits be made to Deposit Account No. 20-0095, TAYLOR & AUST, P.C.

Respectfully submittee

Todd T. Taylor

Registration No. 36,945

Attorney for Applicant

TTT/mb

TAYLOR & AUST, P.C. 142 S. Main St. P.O. Box 560 Avilla, IN 46710

Telephone: 260-897-3400 Facsimile: 260-897-9300

Encs.: Form PTO-1449

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CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: MS Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on: December 2, 2005.

Todd T. Taylor, Reg. No. 36,945

NAME OF RECESTERED REPRESENTATIVE

SIGNATURE

December 2, 2008

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INFORMATION DISCLOSURE STATEMENT				APPLICANT: IAP9 Rec'd PCT/PTO 92 DEC 200 Erik Odén, et al.							
				FILING DA December 2	GROUP:						
				U.S PATENT	DOCUMENT	S					
Examiner Initial *		Document No.	Date	Name		Class	Sub	class	Filing Date		
	AA	5,971,678	10/1999	Linderholm		409	132		June 15, 1998		
	AB	4,644,335	02/1987	Wen		340	683		Apr. 5, 1985		
	AC	6,309,151	10/2001	Sacchetti		409	131		October 19, 1999		
	AD	4,644,335	02/1987	Wen		340	683		April 5, 1985		
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		Document No.	Date	Country		Class	Sub	class	Yes	No	
	AL	WO 01/15870	3/2001	PCT		B25F				Х	
	AM	WO 03/008136	1/2003	PCT		B23C	1/12	2		X	
	AN	DE 43 40 249	11/1993	3 Germany		H05K	3/46	5		X	
i	AO	DE 32 06 354	2/1982	Germany		H05K	3/00)		х	
	AP	DE 100 56 184	11/2000	Germany		H05K	3/00)		х	
	O	THER REFERENC	CES (INCI	LUDING AUTHO	OR TITLE DA	TE DEDTI	NEVIT	DACES	ETC)		
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*Examiner: Iniconsidered. In	itial if refe	rence considered, whet y of this form with next	ther or not cits	ation is in conformance		Draw line throu	ıgh citati	on if not in	conformance	and not	